

ABSTRACT

A device 1 for measuring a propagation time of a sound wave comprises a sound source means 11 and a calculation means 12. The sound source means 11 outputs a time stretched pulse as a sound source signal input to a speaker 3. The calculation means 12 calculates a cross-correlation function of the time stretched pulse and the sound signal which is output from the speaker 3 and is received in a microphone 4. Based on the cross-correlation function, the propagation time of the sound wave between the speaker 3 and the microphone 4 is found.